

Mesoporous Carbon nitride as organocatalyst for Oxidation of olefins and Alcohols

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Organocatalysis have emerged as a new trend in catalytic chemistry which imparts greenness to the catalytic system because of their metal free nature. Most of the organocatalyst are homogenous or immobilized on to siliceous supports via covalent linkages, associated with problems of recovery and loss of activity. Hence necessity of a rigid system is required which can prone to all sorts of harsh catalytic environment.

In here we report the behavioral aspects of nitrogen containing carbonaceous material especially carbon nitride towards oxidation due to occurrence of quinine type surface oxygen. The effect of catalytic activity over different chain length of olefins and effect of electron donating and withdrawing group was studied.